



PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner
or Operator:

STERIGENICS US, INC.
4801-63 E 50TH ST
LOS ANGELES, CA 90058-2709

ID 126191

Equipment Location: 4801-63 E 50TH ST, LOS ANGELES, CA 90058-2709

Equipment Description :

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, CHEMROX, PACKED TYPE, 3'-0" DIA. X 30'-0" H., WITH A 7-1/2 HP RECIRCULATION PUMP
2. TWO REACTOR TANKS, EACH 8'-6" DIA. X 11'-6" H., EACH 4,881 GALLONS CAPACITY, WITH A COMMON 7-1/2 HP DISCHARGE PUMP
3. SCRUBBER SOLUTION SURGE TANK, 8'-6" DIA. X 11'-6" H., 4,881 GALLONS CAPACITY
4. NEUTRALIZATION TANK, 8'-6" DIA. X 11'-6" H., 4,881 GALLONS CAPACITY
5. EXHAUST SYSTEM, 800 SCFM INTAKE CAPACITY, VENTING SIX ETO REACTOR CHAMBERS AND AN ETO DRUM CABINET

Conditions :

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
3. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE CONDUCTED TO VERIFY COMPLIANCE WITH THE MINIMUM ETO CONTROL EFFICIENCY OF THIS EQUIPMENT IS 99.9 PERCENT AS REQUIRED BY RULE 1405.





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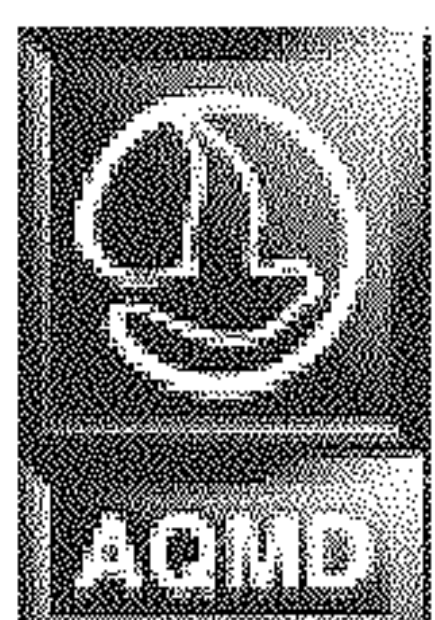
- C. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 71765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERCER MAY BE PRESENT.
- D. TWO COMPLETE COPIES OF SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 71765) WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT LIMITED TO EMISSION RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE INLET AND OUTLET OF THE SCRUBBER, MEASURED ON A DRY BASIS. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED:
- I. THE EXHAUST FLOW RATES IN ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE PRESSURE DROP ACROSS THE SCRUBBER.
 - III. THE SCRUBBER SOLUTION FLOW RATES IN GPM.
 - IV. THE SRUBBER SOLUTION TEMPERTURE.
 - V. THE PH LEVEL OF THE SCRUBBER SOLUTION.
 - VI. ETHYLENE GLYCOL CONCENTRATION IN THE SCRUBBER SOLUTION.
- E. A TESTING LABORTORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR THE POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
- F. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
4. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A DIFFERENTIAL PRESAURE GAUGE TO INDICATE THE PRESSURE DROP ACROSS THE SCRUBBER AIR STREAM. THE PRESSURE DROP ACROSS THE SCRUBBER SHALL BE SET AND MAINTAINED ACORDING TO THE MANUFACTURER SPECIFICATION WHICH RESULTS IN 99.9% REMOVAL EFFICIENCY OR BETTER DURING THE ENTIRE PURGE CYCLE.
5. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A FLOW METER TO MEASURE THE FLOW RATE OF THE SCRUBBING SOLUTION IN GALLONS PER MINUTE (GPM). NO LESS THAN 70 GPM SHALL BE MAINTAINED IN THE LIQUID RECIRCULATION LINE TO THE SCRUBBER.
6. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A TEMPERATURE INDICATOR AT THE SCRUBBER SOLUTION INLET TO THE SCRUBBER. THE TEMPERATURE OF THE SCRUBBER SOLUTION SHALL NOT EXCED 95 DRGREES FAHRENHEIT.
7. THIS CONTROL EQUIPMENT SHALL BE EQUIPPED WITH A PH METER TO ACCURATELY INDICATE THE PH OF THE SCRUBBING SOLUTION USED IN THE SCRUBBER. THE PH LEVEL SHALL BE MAINTAINED AT 2.0 OR LOWER DURING THE ENTIRE PURGE CYCLE.





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8. THIS CONTROL SYSTEM AND ALL THE DEVICES AND COMPONENTS WHICH ARE CONNECTED TO THIS SYSTEM SHALL BE LEAK TESTED EVERY SIX MONTHS USING THE LATEST CARB TEST METHOD DURING CONDITIONS OF MAXIMUM STERILANT GAS FLOW.
9. THE ETO PURGE FROM THE ETO CHAMBERS SHALL BE EVENLY SPREAD OVER THE COURSE OF 24 HOUR PER DAY. NO MORE THAN THREE ETO CHAMBERS SHALL BE EVACUATED TO THIS EQUIPMENT AT ANY ONE TIME. ETO DRUM CABINET SHALL BE EVACUATED TO THE SCRUBBER WHENEVER LEAKY ETO DRUM(S) ARE PLACED IN THE CABINET. RECORDS INDICATING THE DATE, CHAMBER IDENTIFICATION NUMBER, POUNDS OF ETHYLENE OXIDE USED IN EACH CYCLE, AND THE TIME OF THE DAY WHEN THE CHAMBER IS PURGED SHALL BE RECORDED.
10. AT LEAST ONCE A DAY THE PH LEVEL, VOLUME FLOW RATE AND TEMPERATURE OF THE SCRUBBER SOLUTION, AND THE PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER SHALL BE RECORDED.
11. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH THE MONITORING REQUIREMENTS OF CARB ETHYLENE OXIDE AIR BORNE TOXIC CONTROL MEASURE (ATCM) FOR STERILIZERS AND AERATORS.
12. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH THE MONITORING REQUIREMENTS OF EPA ETHYLENE OXIDE COMMERCIAL STERILIZATION AND FUMIGATION NESHAP.
13. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITION NOS. 4, 5, 6, 7, 8, 9 AND 10. THE RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.





SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

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Permit No.
G2974
A/N 438093

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NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M. Bailey

By Dorris M. Bailey/JY02

5/22/2009



South Coast Air Quality Management District
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